

IN THE CLAIMS:

The following Listing of Claims replaces all prior Listings and versions of claims in the above-identified application.

1-26. (Canceled)

27. (New) A food product comprising:

(a) a microorganism of the genus *Mortierella* sect. *schmuckeri*, lipids recovered from said microorganism or mixtures thereof; and

(b) a food material,

wherein at least about 21.9% of the total fatty acid of said *Mortierella* sect. *schmuckeri* is arachidonic acid, and wherein said *Mortierella* sect. *schmuckeri* is capable of producing at least about 0.7 grams of arachidonic acid per liter per day.

28. (New) The food product of Claim 27, wherein said food material comprises animal food.

29. (New) The food product of Claim 27, wherein said food material comprises human food.

30. (New) The food product of Claim 27, wherein said *Mortierella* sect. *schmuckeri* is of the species *Mortierella schmuckeri*.

31. (New) The food product of Claim 27, wherein said *Mortierella* sect. *schmuckeri* is of the species *Mortierella camargensis*.

32. (New) The food product of Claim 27, wherein said food product has a total fatty acid content in which up to about 20% by weight of total fatty acids is arachidonic acid.

33. (New) The food product of Claim 27, wherein said food product has a total fatty acid content in which up to about 10% by weight of total fatty acids is arachidonic acid.

34. (New) The food product of Claim 27, wherein said food product has a total fatty acid content in which between about 0.1% and about 1.0% by weight of total fatty acids is arachidonic acid.

35. (New) The food product of Claim 27, wherein said food material comprises an infant food material.

36. (New) The food product of Claim 27, wherein said food product is selected from the group consisting of infant formula and baby food.